

557,536

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/104457 A2

(51) International Patent Classification⁷: **F16K**
(21) International Application Number:
PCT/US2004/015934
(22) International Filing Date: 19 May 2004 (19.05.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/471,639 19 May 2003 (19.05.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

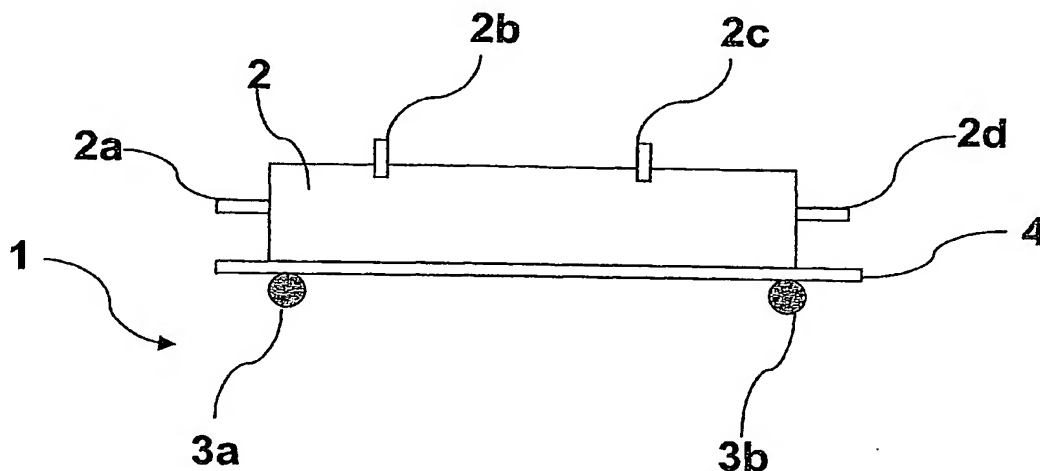
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **BULK FLUID FLOW GATE**



(57) Abstract: A bulk fluid flow gate is provided. In accordance with certain exemplary embodiments the bulk fluid flow gate includes a first and second entry port and first and second exit ports. Bulk fluid is flowed into the chamber to provide greater hydrodynamic resistance at the first exit port than at the second exit port. The bulk fluid flow gate is useful for separation, testing and or analysis of analytes. Methods of making and using the bulk fluid flow gate are also provided. In accordance with certain exemplary embodiments a fluid flow gate includes a first entry port into a microscale chamber and first and second exit ports. In accordance with certain embodiments a fluid flow gate includes a first entry port to a chamber and first and second exit ports, wherein greater hydrodynamic resistance is provided at the first exit port than at the second exit port.

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